

§ 180.920

40 CFR Ch. I (7–1–13 Edition)

Inert ingredients	Limits	Uses
Wood flour	Derived from wood free of chemical preservatives.	Solid diluent and carrier
Xanthan gum-modified, produced by the reaction of xanthan gum and glyoxal (maximum 0.3% by weight).	Not more than 0.5% of pesticide formulation.	Surfactant
Xylene meeting the specifications listed in 21 CFR 172.884(b)(4).	In pesticide formulations for grain storage only.	Solvent, cosolvent
Zeolite (hydrated alkali aluminum silicate) .....	.....	Solid diluent, carrier
Zinc oxide .....	.....	Coating agent
Zinc sulfate (basic and monohydrate) .....	.....	Do.
Zinc sulfate (basic and monohydrate) .....	.....	Solid diluent, carrier

[69 FR 23117, Apr. 28, 2004]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting § 180.910, see the List of CFR Sections Affected, which appears in the Finding Aids section of the printed volume and at www.fdsys.gov.

§ 180.920 Inert ingredients used pre-harvest; exemptions from the requirement of a tolerance.

The following materials are exempted from the requirement of a tolerance

when used in accordance with good agricultural practice as inert (or occasionally active) ingredients in pesticide formulations applied to growing crops only:

Inert ingredients	Limits	Uses
Acetophenone .....	.....	Attractant
Adenosine (CAS Reg. No. 58–61–7)	Maximum of 0.5% of formulation.	Synergist
Alder bark .....	.....	Seed germination stimulator
Alkyl (C ₁₂ –C ₁₈) dimethyl ammonio acetate (CAS Reg. Nos. 683–10–3, 2601–33–4 and 693–33–4.	20% by weight in pesticide formulation.	Surfactant
α-Alkyl (minimum C ₆ linear, branched, saturated and/or unsaturated)-ω-hydroxypolyoxyethylene polymer with or without polyoxypropylene, mixture of di- and monohydrogen phosphate esters and the corresponding ammonium, calcium, magnesium, monoethanolamine, potassium, sodium, and zinc salts of the phosphate esters; minimum oxyethylene content is 2 moles; minimum oxypropylene content is 0 moles (CAS Reg. Nos. 9046–01–9, 37280–82–3, 39464–66–9, 42612–52–2, 50643–20–4, 52019–36–0, 58318–92–6, 60267–55–2, 61837–79–4, 67711–84–6, 68070–99–5, 68071–35–2, 68071–17–0, 68130–47–2, 68186–37–8, 68186–36–7, 68311–02–4, 68425–73–0, 68458–48–0, 68511–37–5, 68610–65–1, 68585–36–4, 68649–29–6, 68815–11–2, 68908–64–5, 68891–13–4, 73038–25–2, 78330–24–2, 108818–88–8, 154518–39–5, 317833–96–8, 873662–29–4, 936100–29–7, 936100–30–0).	Not to exceed 30% of pesticide formulation.	Surfactants, related adjuvants of surfactants
N-alkyl(C ₈ –C ₁₈) dimethylamidopropylamines where the alkyl group is linear and may be saturated and/or unsaturated (CAS Reg. Nos. 109–28–4, 3179–80–4, 7651–02–7, 22890–10–4, 22890–11–5, 39669–97–1, 45267–19–4, 68140–01–2, 1147459–12–8, 146987–98–6).	Not to exceed 20% by weight in herbicide formulations.	Surfactants, related adjuvants of surfactants
N-alkyl (C ₈ –C ₁₈) primary amines and their acetate salts where the alkyl group is linear and may be saturated and/or unsaturated (CAS Reg. Nos. 61790–57–6, 61790–58–7, 61790–59–8, 61790–60–1, 61788–46–3, 61790–33–8, 68155–38–4).	Concentration in formulated end-use products not to exceed 10% by weight in herbicide products, 4% by weight in insecticide products, and 4% by weight in fungicide products.	Surfactants, related adjuvants of surfactants

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Inert ingredients	Limits	Uses
N,N-Bis- α -ethyl- ω -hydroxypoly(oxy-1,2-ethanediyl) C ₈ -C ₁₈ saturated and unsaturated alkylamines; the poly(oxy-1,2-ethanediyl) content is 2–60 moles (CAS Reg. Nos. 10213–78–2, 25307–17–9, 26635–92–7, 26635–93–8, 288259–52–9, 58253–49–9, 61790–82–7, 61791–14–8, 61791–24–0, 61791–26–2, 61791–31–9, 61791–44–4, 68155–33–9, 68155–39–5, 68155–40–8, 70955–14–5, 73246–96–5, 1266162–49–5).	Not to exceed 25% in herbicide formulations and 10% in insecticide and fungicide formulations.	Surfactants, related adjuvants of surfactants
N,N-Bis- α -ethyl- ω -hydroxypoly(oxy-1,2-ethanediyl/oxy(methyl-1,2-ethanediyl) C ₈ -C ₁₈ saturated and unsaturated alkylamines; the poly(oxy-1,2-ethanediyl/oxy(methyl-1,2-ethanediyl) content is 2–60 moles (CAS Reg. Nos. 68213–26–3, 68153–97–9, 75601–76–2).	Not to exceed 25% in herbicide formulations and 10% in insecticide and fungicide formulations.	Surfactants, related adjuvants of surfactants
Aluminum sulfate .....	.....	Safener adjuvant
Ammonium chloride (CAS Reg. No. 12125–02–9).	.....	Carrier/nutrient
Ammonium formate (CAS Reg. No. 540–69–2) ..	.....	Complexing or fixing agent
Ammonium nitrate (CAS Reg. No. 6484–52–2) ..	.....	Adjuvant/ intensifier for herbicides
Ammonium polyphosphate (CAS Reg. No. 68333–79–9).	.....	Sequestrant, buffer, or surfactant
Barium sulfate .....	.....	Carrier
1,4-Benzenedicarboxylic acid, dimethyl ester, polymer with 1,4-butanediol, adipic acid, and hexamethylene diisocyanate, minimum number average molecular weight (in amu) 30,000 (CAS Reg. No. 55231–08–8).	For use in honeybee hive miticide formulations.	Component of controlled release agent
1,2-Benzisothiazolin-3-one	Not more than 0.1% of formulation. Not more than 0.02 lb to be applied per acre.	Preservative/stabilizer
Boric acid .....	.....	Sequestrant
Buffalo gourd root powder (<i>Cucurbita foetidissima</i> root powder); or, Zucchini juice (<i>Cucurbita pepo</i> juice) or Hawkesbury melon <i>Citrullus lanatus</i> ..	No more than 2.5 lbs/acre/season (3.4 gm/acre/season of Cucurbitacin).	Gustatory stimulant
Butyl stearate .....	.....	Defoamer
γ -Butyrolactone .....	.....	Solvent
C.I. Pigment Blue #15 (CAS Reg. No. 147–14–8; containing no more than 50 ppm polychlorinated biphenyls (PCBs)).	For seed treatment use only	Dye, coloring agent
C.I. Pigment Green #7 (CAS Reg. No. 1328–53–6; containing no more than 50 ppm polychlorinated biphenyls (PCBs)).	For seed treatment use only.	Dye, coloring agent
C.I. Pigment Violet #23 (CAS Reg. No. 6358–30–1; containing no more than 20 ppb of polychlorinated dibenzo- <i>p</i> -dioxins and/or polychlorinated dibenzofurans).	For seed treatment use only.	Dye, coloring agent
Calcium gluconate (CAS Reg. No. 299–28–5) ...	.....	Sequestrant
Camphor (CAS Reg. No. 76–22–2)	Not more than 5% weight to weight (w/w) of pesticide formulations.	Deodorant, melting point adjustment
Carbon Black (CAS Reg. No. 1333–86–4)	For seed treatment use only.	Colorant
Carbonic acid, dipotassium salt (CAS Reg. No. 584–08–7).	.....	Buffering agent
Carbonic acid, dipotassium salt, trihydrate (CAS Reg. No. 18662–52–7).	.....	Buffering agent
Carboxymethyl guar gum sodium salt (CAS Reg. No. 39346–76–4).	Without limitation	Thicker/drift reduction agent
Carboxymethyl-hydroxypropyl guar (CAS Reg. No. 68130–15–4).	Without limitation	Thicker/drift reduction agent
Carous chloride	10 ppm in formulation	Tagging agent
Carrageenan, conforming to 21 CFR 172.260	Not more than 0.15% of pesticide formulation.	Thickener and stabilizer for pesticide formulations applied to seeds before planting
Chlorobenzene	Contains not more than 1% impurities. Not for use after edible parts of plant begin to form. Do not graze livestock in treated areas within 48 hours after application.	Solvent, cosolvent

Inert ingredients	Limits	Uses
5-Chloro-2-methyl-4-isothiazolin-3-one (in combination with 2-methyl-4-isothiazolin-3-one).	Not more than 0.0022% (22.5 ppm) in the formulation; 0.00022% (or 2.25 ppm) in the final solution applied to growing crops.	Preservative
Choline chloride (CAS Reg. No. 67–48–1)	Without limitation	As a solvent
Choline hydroxide (CAS Reg. No. 123–41–1)	Maximum of 0.14% by weight of formulation.	Neutralizer
Cis-isomer of 1-(3-chloroallyl)-3,5,7-triaza-1-azoniaadamantane chloride (CAS Reg. No. 51229–78–8).		Preservative
Copper naphthenate	Not more than 2.5% of formulation; application limited to before edible portions of plants begin to form.	Mercaptan scavenger in technical pesticide
Cyclohexane		Solvent, cosolvent
Cyclohexanone		Do.
Cysteine (CAS Reg. No. 52–90–4)	Maximum of 0.5% of formulation.	Synergist
D&C Green No. 6		Dye
D&C Red No. 17, technical grade		Dye
D&C Red No. 33 (CAS Reg. No. 3567–66–6); meeting the specifications listed in 21 CFR 74.1333.		Dye
D&C Violet No. 2, technical grade	Not more than 0.005% of pesticide formulation.	Dye
Decanamide, N,N-dimethyl (CAS Reg. No. 14433–76–2).		Emulsifier, solvent, cosolvent
Diammonium phosphate (CAS Reg. No. 7783–28–0).		Buffer, surfactant
dibenzylidene sorbitol (32647–67–9)		Thinning agent
Diethanolamine		Stabilizer, inhibitor for formulations used before crop emerges from soil
Diethanolamine salts of alkyl (C ₈ –C ₂₄) benzenesulfonic acid (CAS Reg. Nos. 26545–53–9 and 68953–97–9).	Not to exceed 7% of pesticide formulation.	Surfactants, related adjuvants of surfactants
Diethylene glycol		Deactivator, adjuvant for formulations used before crop emerges from soil
Diethylene Glycol (CAS No. 111–46–6)	Without limitation	Solvent, stabilizer and/or antifreeze
Diethylene glycol and diethylene glycol monobutyl, monoethyl, and monomethyl ethers.		Deactivator for formulations used before crop emerges from soil, stabilizer
Diethylene glycol mono butyl ether (CAS Reg. No. 112–34–5).	Without limitation	Pesticide inert ingredient as a solvent, stabilizer and/or antifreeze
Diethylene Glycol MonoEthyl Ether (CAS Reg. No. 111–90–0).	Without limitation	Solvent, stabilizer and/or antifreeze
Dimethylaminopropylamine, isopropylamine, ethanolamine, and triethanolamine salts of alkyl (C ₈ –C ₂₄) benzenesulfonic acid (CAS Reg. Nos. 26264–05–1, 27323–41–7, 55470–69–4, 68411–31–4, 68584–24–7, 68584–25–8, 68648–81–7, 68648–96–4, 68649–00–3, 68910–32–7, 68953–93–5, 90194–42–6, 90194–53–9, 90218–35–2, 157966–96–6, 319926–68–6, 877677–48–0, 1093628–27–3).		Surfactants, related adjuvants of surfactants
3,6-Dimethyl-4-octyn-3,6-diol	In pesticide formulations, for soil prior to planting or to plants before edible parts form.	Surfactants, related adjuvants of surfactants
Dimethyl sulfoxide		Solvent or cosolvent for formulations used before crop emerges from soil or prior to formation of edible parts of food plants
Dipotassium hydrogen phosphate		Buffering agent
Dipropylene glycol monomethyl ether		Stabilizer
Douglas-fir bark, ground		Solid diluent, carrier
Dysprosium chloride	10 ppm in formulation	Tagging agent
1,2-ethanediamine,N,N,N',N'-tetramethyl-, polymer with 1,1'-oxybis[2-chloroethane] (CAS Reg. No. 31075–24–8).	For use in pesticide formulations applied to cotton or wheat only.	Adjuvant or water conditioner
(S,S)-Ethylenediaminedisuccinic acid (CAS Reg. No. 20846–91–7).		Sequestrant or chelating agent
Ethylene glycol		Antifreeze, deactivator for all pesticides used before crop emerges from soil and in herbicides before or after crop emerges

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Ethylene glycol (CAS Reg. No. 107–21–1)	Without limitation	Pesticide inert ingredient as a solvent, stabilizer and/or antifreeze.
Ethylene glycol monobutyl ether
2-Ethylhexanol	Cosolvent, defoamer, solvent for all pesticides used before crop emerges from soil and in herbicides before or after crop emerges
Europic chloride	10 ppm in formulation	Tagging agent
FD&C Blue No. 1, methyl-polyethylene glycol derivative (CAS Reg. No. 9079–34–9).	For seed treatment use only; Number average molecular weight (in amu) is greater than 1,000; Not to exceed 5% of the formulated pesticide product.	Dye, coloring agent
FD&C Blue No. 1, polyethylene glycol derivative (CAS Reg. No. 9079–33–8).	For seed treatment use only; Number average molecular weight (in amu) is greater than 1,000; Not to exceed 5% of the formulated pesticide product.	Dye, coloring agent
FD&C Red No. 40 (CAS Reg. No. 25956–17–6)	For seed treatment use only. Not to exceed 2% by weight of the pesticide formulation.	Dye, coloring agent
Ferric chloride	Not greater than 2% of suspending, dispersing agent, pesticide formulation
Fluoroapatite	Solid diluent, carrier
Folic acid (CAS Reg. No. 59–30–3)	Maximum of 0.5% of formulation.	Synergist
Gluconic acid (and sodium salt)	Sequestant
L-Glutamic acid (C ₅ H ₉ NO ₄ CAS Reg. No. 56–86–0).	Seed treatment use only	Plant nutrient
[alpha]-D-glucopyranoside, 2-ethylhexyl 6-O-[alpha]-D-glucopyranosyl- (CAS Reg. No. 330980–61–5).	Surfactant
[alpha]-D-glucopyranoside, 2-ethylhexyl (CAS Reg. No. 125590–73–0).	Surfactant
Glutamine (CAS Reg. No. 56–85–9)	Maximum of 0.5% of formulation.	Synergist
Glycerol—propylene oxide polymer (CAS Reg. No. 25791–96–2).	Component in water-soluble film
Glyceryl triacetate	Stabilizer
Glyceryl tris-12-hydroxystearate	Flow control agent
Graphite	Treatment aid for seeds
Guar hydroxypropyltrimethylammonium chloride (CAS Reg. No. 71329–50–5).	Thickener/drift reduction agent
Hexamethylenetetramine	Stabilizer for carriers in solid pesticide formulations
2-(2'-hydroxy-3',5'-di-tert-amylphenyl) benzotriazole (CAS Reg. No. 25973–55–1).	Maximum concentration of 0.6% in insecticide formulations applied to adzuki beans, canola, chickpeas, cotton, faba beans, field peas, lentils, linola, linseed, lucerne, lupins, mung beans, navy beans, pigeon peas, safflower, sunflower, and vetch.	Ultraviolet (UV) stabilizer
2-Hydroxy-4- <i>n</i> -octoxybenzophenone (CAS Reg. No. 1843–05–6).	Not more than 0.2 pt of pesticide formulation.	Light stabilizer
Hydroxypropyl guar gum	Thickener
Isobornyl acetate	Solvent
Isobutyl alcohol	Do.
Isobutylene-butene copolymers	For soil application only	Binder
Isocetadecanol	Not more than 2% of pesticide formulation.	Defoaming agent
Lanthanum chloride	10 ppm in formulation	Tagging agent.
Magnesium nitrate (in combination with 2-methyl-4-isothiazolin-3-one and 5-chloro-2-methyl-4-isothiazolin-3-one).	None	Preservation
Maleic acid and maleic anhydride	For pesticide formulations applied to apples with a minimum preharvest interval of 21 days.	Stabilizer
Manganese carbonate	Plant nutrient

Inert ingredients	Limits	Uses
Mesityl oxide	Not for use after edible parts of plant begin to form. Do not graze live-stock in treated areas within 48 hours after application.	Solvent, cosolvent
Methionine (CAS Reg. No. 59–51–8)	Maximum of 0.5% of formulation.	Synergist
Methyl alcohol .....	.....	Do.
Methyl ethyl ketone .....	.....	Surfactant
Methyl <i>p</i> -hydroxybenzoate .....	.....	Preservative for formulations
Methyl isobutyl ketone .....	.....	Solvent, cosolvent
2-Methyl-4-isothiazolin-3-one (in combination with 5-chloro-2-methyl-4-isothiazolin-3-one).	Not more than 0.0022% (22.5 ppm) in the formulation; 0.00022% (or 2.25 ppm) in the final solution applied to growing crops.	Preservative
Mono-, di-, and trimethylnaphthalenesulfonic acids and naphthalenesulfonic acids formaldehyde condensates, ammonium and sodium salts (CAS Reg. Nos. 9008–63–3, 9069–80–1, 9084–06–4, 36290–04–7, 91078–68–1, 141959–43–5, 68425–94–5).	.....	Surfactants, related adjuvants of surfactants
Methyl oleate .....	.....	Surfactant
2-Methyl-2,4-pentanediol .....	.....	Solvent for formulations used before crop emerges from soil
Methyl poly(oxyethylene) C_8 – C_{18} alkylammonium chlorides where the poly(oxyethylene) content is $n=2-15$ and where C_8 – C_{18} alkyl is linear and may be saturated or unsaturated (CAS Reg. Nos. 3010–24–0, 18448–65–2, 70750–47–9, 22340–01–8, 67784–77–4, 64755–05–1, 61791–10–4, 28724–32–5, 28880–55–9, 68187–69–9, 68607–27–2, 60687–90–3).	Concentration in formulated end use products not to exceed 10% by weight in herbicide products and 5% by weight in all other pesticide products.	Surfactants, related adjuvants of surfactants
<i>N</i> -Methylpyrrolidone (CAS Reg. No. 872-504) ....	.....	Solvent, cosolvent
Mixed phytosterols (consisting of campesterol, sitosterol and stigmasterol, with minor amounts of associated plant sterols) derived from edible vegetable oils.	.....	Surfactant
Mono- and bis-(1 <i>H</i> , 1 <i>H</i> , 2 <i>H</i> , 2 <i>H</i> -perfluoroalkyl) phosphates where the alkyl group is even numbered and in the C_6 – C_{12} range.	Not more than 0.5% of pesticide formulation. Expires February 9, 2008.	Surfactant, related adjuvants of surfactants
Mono- and dialkyl (C_8 – C_{18}) methylated ammonium chloride compounds, where the alkyl group(s) (C_8 – C_{18}) are derived from coconut, cottonseed, soya, tallow, or hogfat fatty acids.	.....	Surfactants, related adjuvants of surfactants
Morpholine 4- C_{6-12} Acyl Derivatives (CAS Reg. No. 887947–29–7).	.....	As a solvent
Nicotinamide (CAS Reg. No. 98–92–0)	Maximum of 0.5% of formulation.	Synergist
α -(<i>p</i> -Nonylphenyl)- ω -hydroxypoly(oxyethylene); produced by the condensation of 1 mole of nonylphenol (nonyl group is a propylene trimer isomer) with an average of 4-14 or 30-100 moles of ethylene oxide; if a blend of products is used, the average number of moles of ethylene oxide reacted to produce any product that is a component of the blend shall be in the range 4-14 or 30-100.	.....	Surfactant
Octanamide, <i>N,N</i> -dimethyl (CAS Reg. No. 1118–92–9).	.....	Emulsifier, solvent, cosolvent
α -Oleoyl- ω -(oleoyloxy) poly(oxyethylene) derived from α -hydro- ω -hydroxypoly(oxyethylene) (molecular weight 600 amu).	.....	Component of defoamers
Oxo-decyl acetate (CAS reg. No. 108419–33–6)	.....	Solvent
Oxo-heptyl acetate (CAS Reg. No. 90438–79–2)	.....	Solvent
Oxo-hexyl acetate (CAS Reg. No. 88230–35–7)	.....	Solvent
Oxo-nonyl acetate (CAS Reg. No. 108419–34–7).	.....	Solvent
Oxo-octyl acetate (CAS Reg. No. 108419–32–5)	.....	Solvent
Oxo-tridecyl acetate (CAS Reg. No. 108419–35–8).	Solvent
Phenol	Solvent, cosolvent

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Phenol, 2-(2H-benzotriazole-2-yl)-6-dodecyl-4-methyl; (CAS Reg. No. 23328-53-2).	Maximum concentration of 0.6% in insecticide formulations applied to adzuki beans, canola, chickpeas, cotton, faba beans, field peas, lentils, linola, linseed, lucerne, lupins, mung beans, navy beans, pigeon peas, safflower, sunflower, and vetch.	Ultraviolet (UV) stabilizer
Phenolsulfonic acid—formaldehyde—urea condensate and its sodium salt.	Applied to growing plants only.	Dispersant surfactant
(Phthalocyaninato (2)) copper; (C.I. pigment blue No. 15).	When used as a colorant in low-density plastic films.	Coloring agent, pigment
Pigment red 48	For seed treatment use only.	Dye
α-Pinene	Not more than 2% of formulation by weight.	Stabilizer
Poly(oxy-1,2-ethanediyl), α-isotridecyl-ω-methoxy (CAS Reg. No. 345642-79-7).	At a maximum of 10% in formulation.	Surfactant
Poly(oxyethylene) adducts of mixed phytosterols (such sterols to consist of campesterol, stigmasterol and sitosterol with minor amounts of associated plant sterols) derived from edible vegetable oils; polyoxyethylene content averaging 5-26 moles.	.....	Surfactant, related adjuvants
Polyoxyethylene polyoxypropylene mono(di-sec-butylphenyl) ether (CAS Reg. No. 69029-39-6).	Limited to herbicide formulations only, and to no more than 30% by weight in herbicide formulations intended for application to turf.	Surfactants, related adjuvants of surfactants
Poly(oxyethylene) (5) sorbitan monooleate .....	.....	Surfactants, related adjuvants of surfactants
Polysorbate 60, conforming to 21 CFR 172.836	.....	Surfactant
Potassium dihydrogen phosphate .....	.....	Buffering agent
2-Propanamine, compound with α-phosphono-ω-butoxypoly (oxy-1,2-ethanediyl) (2:1) (CAS Reg. No. 431040-31-2).	Not more than 15% in the formulated product.	Surfactant
2-Propanamine, compounds with polyethylene glycol dihydrogen phosphate C ₈₋₁₀ alkyl ether (2:1) (CAS Reg. No. 431062-72-5).	Not more than 15% in the formulated product.	Surfactant
Propylene glycol monomethyl ether .....	.....	Solvent
Pyridoxine (CAS Reg. No. 65-23-6)	Maximum of 0.5% of formulation.	Synergist
Rosin, dark wood (as defined in 21 CFR 178.3870(a)(1)(v)).	.....	Surfactants, related adjuvants of surfactants
Rosin, gum .....	.....	Do.
Rosin, tall oil .....	.....	Do.
Scandium chloride	10 ppm in formulation	Tagging agent
Sodium bisulfate (CAS Reg. No. 7681-38-1) ....	.....	Acidifying/buffering agent
Sodium 1,4-dicyclohexyl sulfosuccinate .....	.....	Surfactants, related adjuvants of surfactants
Sodium 1,4-dihexyl sulfosuccinate (CAS Reg. No. 3006-15-3).	.....	Surfactants, related adjuvants of surfactants
Sodium dihydrogen phosphate (CAS Reg. No. 7558-80-7) conforming to 21 CFR 182.6778.	.....	Buffering agent
Sodium 1,4-diisobutyl sulfosuccinate (CAS Reg. No. 127-39-9).	.....	Surfactants, related adjuvants of surfactants
Sodium 1,4-dipentyl sulfosuccinate (CAS Reg. No. 922-80-5).	.....	Surfactants, related adjuvants of surfactants
Sodium metaborate .....	.....	Sequestrant
Sodium molybdate .....	.....	Plant nutrient
Sodium nitrate .....	.....	Solid diluent
Sodium nitrite	Not more than 3% of pesticide formulation.	Stabilizer, inhibitor.
Sodium o-phenylphenate	Not more than 0.1% of pesticide formulation.	Preservative for formulation
Sodium salt of the insoluble fraction of rosin .....	.....	Surfactants, related adjuvants of surfactants
Sodium salts of N-alkyl (C8-C18)-β-aminodipropionic acid where the C8-C18 is linear and may be saturated and/or unsaturated (CAS Reg. Nos. 3655-00-3, 61791-56-8, 14960-06-6, 26256-79-1, 90170-43-7, 91696-17-2, 97862-48-1).	Concentration in formulated end-use products not to exceed 30% by weight in pesticide formulations.	Surfactants, related adjuvants of surfactants

Inert ingredients	Limits	Uses
Sodium tetraborate	Not more than 2% of pesticide formulation.	Buffering agent; corrosion inhibitor
Tallowamine, ethoxylated, mixture of dihydrogen phosphate and monohydrogen phosphate esters and the corresponding ammonium, calcium, potassium, and sodium salts of the phosphate esters, where the poly(oxyethylene) content averages 2–20 moles (CAS Reg. No. 68308–48–5).	Not to exceed 20% of pesticide formulation.	Surfactants, related adjuvants of surfactants
Tannin .....	.....	Dispersing agent
Tertiary butylhydroquinone .....	.....	Antioxidant
1-Tetradecanamine, <i>N,N</i> -dimethyl-, <i>N</i> -oxide (CAS Reg. No. 3332–27–2).	.....	Component in water-soluble film
<i>N,N,N',N'</i> -Tetrakis-(2-hydroxypropyl) ethylenediamine (CAS Reg. No. 102–60–3).	Concentration in formulated end-use products not to exceed 20% by weight in pesticide formulations.	Stabilizer for formulations
2,4,7,9-Tetramethyl-5-decyne 4,7-diol	In pesticide formulations, for application to soil prior to planting or to plants before edible parts form.	Surfactants, related adjuvants of surfactants
Tetrapotassium pyrophosphate (CAS Reg. No. 7320–345).	Not to exceed 10% of formulation.	Sequestrant, anticaking agent, conditioning agent
Titanium dioxide (CAS Reg. No. 13463–67–7) ...	.....	Pigment/coloring agent in plastic bags used to wrap growing banana (preharvest), colorant on seeds for planting
Toluenesulfonic acid and its ammonium, calcium, magnesium, potassium, sodium, and zinc salts.	.....	Solvent, cosolvent
Triethanolamine .....	.....	Stabilizer, inhibitor for formulations used before crop emerges from soil
Triethanolamine (CAS Reg. No. 102–71–6) .....	.....	Stabilizer, inhibitor
Triethylene glycol .....	.....	Deactivator
Triethyl phosphate .....	.....	Stabilizer for formulations used before crop emerges from soil
Trimethylolpropane (CAS Reg. No. 77–99–6)	Not to exceed 15% by weight of the film.	Component in water-soluble film
α -[2,4,6-Tris[1-(phenyl)ethyl]phenyl]- ω -hydroxy poly(oxyethylene), the poly(oxyethylene) content averages 4-150 moles).	Not more than 15% of the formulation.	Surfactant.
α -[2,4,6-Tris[1-(phenyl)ethyl]phenyl]- ω -hydroxy poly(oxyethylene); mixture of monohydrogen and dihydrogen phosphate esters and the corresponding ammonium, calcium, magnesium, potassium, sodium, and zinc salts, the poly(oxyethylene) content averages 4-150 moles).	Not more than 15% of the formulation.	Do.
α -[2,4,6-Tris[1-(phenyl)ethyl]phenyl]- ω -hydroxy poly(oxyethylene) sulfate, and the corresponding ammonium, calcium, magnesium, potassium, sodium, and zinc salts, the poly(oxyethylene) content averages 4-150 moles.	Not more than 15% of the pesticide formulation.	Do.
Tryptophan (CAS Reg. No. 73–22–3)	Maximum of 0.5% of formulation.	Synergist
Valeric acid, normal	Not more than 2% in pesticide formulations.	Stenching agent or odorant
Xylene .....	.....	Solvent, cosolvent
Xylenesulfonic acid its ammonium calcium, magnesium, potassium, sodium, and zinc salts.	.....	Surfactants, related adjuvants of surfactants
Yucca extract from <i>Yucca schidigera</i> .....	.....	Wetting agent
Ytterbium chloride	10 ppm in formulation	Tagging agent
Yttrium chloride	10 ppm in formulation	Tagging agent
Zinc orthophosphate .....	.....	Plant nutrient and safener
Zinc stearate, conforming to 21 CFR 182.5994 and 582.5994.	Flow control agent

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